

ATCC 21523○ MSTHTSSTLPAFKKILVANRGEI AVRA FRAALETGAATVAIYP  
NRRL-B11474○ MTAITLGGLLLLKGIITLV

ATCC 21523○ REDRGSFHRSFASEAVRIGTEGSPVKAYLDIDEIIGA AKKVKADAIYPGYGFLSENAQLA  
NRRL-B11474○

ATCC 21523○ RECAENGITFIGPTPEVLDLTGDKSRAVTA AKKAGLPVLAESTPSKNIDEIVKSAEGQTY  
NRRL-B11474○ D

ATCC 21523○ PIFVKAVAGGGGRGMRFVASPDELRLK LATEASREAEAAFGDGAVYVERAVINPQHIEVQI  
NRRL-B11474○ S S

ATCC 21523○ LGDHTGEVVHLYERDCSLQRRHQKVVEIAPAAQHLDPELRDRICADAVKFCRSIGYQGAG  
NRRL-B11474○ R

ATCC 21523○ VEFLVDEKGNHVFIE MNPRIQVEHTVTEEVDLVKAQMRLAAGATLKE LGLTQDKIKT  
NRRL-B11474○

ATCC 21523○ HGAALQCRITTEDPNNGFRPD TGTITAYRSPGGAGVRLDGAAQLGGEITAHFDSMLVKMT  
NRRL-B11474○

ATCC 21523○ CRGSDFETAVARAQRALAEFTVSGVATNIGFLRALLREEDFTSKRIATGFIADHPHLLQA  
NRRL-B11474○ G

ATCC 21523○ PPADDEQGRILDYLA DVTVNKPHGVRPKDVAAPIDKLPNIKDLPLPRGSRDR LKQLGPAA  
NRRL-B11474○

ATCC 21523○ FARDLREQDALAVTDTTFRDAHQSLLATRVRSFALKPA AEAVAKLTPELLSVEAWGGATY  
NRRL-B11474○

ATCC 21523○ DVAMRFLFEDPWDRLDELREAMPNVNIQMLLRGRNTVGYTPYPDSVCRAFVKEAASSGVD  
NRRL-B11474○

ATCC 21523○ IFRIFDALNDVSQMRPAIDAVLETNTAVAEVAMAYSGDLSDPNEKLYTLDY YLKMAEEIV  
NRRL-B11474○

ATCC 21523○ KSGAHILA IKDMAGLLRPAAVTKLV TALRREFDLPVHVHTHDTAGGQLATYFAAAQAGAD  
NRRL-B11474○

ATCC 21523○ AVDGASAPLSGTT SQPSLSAIVAAFAHTRRDTGLSLEAVSDLEPYWEAVRGLYLPFESGT  
NRRL-B11474○

FIG. 2A

830 840 850 860 870 880  
ATCC 21523 ○ PGPTGRVYRHEIPGGQLSNLRAQATALGLADRFELIEDNYAAVNEMLGRPTKVTPSSKV  
NRRL-B11474 ○

890 900 910 920 930 940  
ATCC 21523 ○ GDLALHLVGAGVDPADFAADPQKYDIPDSVIAFLRGELGNPPGGWPEPLRTRALEGRSEG  
NRRL-B11474 ○

950 960 970 980 990 1000  
ATCC 21523 ○ KAPLTEVPEEEEQAHLDAADSKERRNSLNRLFPKPTEEFLEHRRRFGNTSALDDREFFYG  
NRRL-B11474 ○

1010 1020 1030 1040 1050 1060  
ATCC 21523 ○ LVEGRETLIRLPDVRTPLLRLDAISEPDDKGMRNVVANVNGQIRPMRVRDRSVESVTAT  
NRRL-B11474 ○

1070 1080 1090 1100 1110 1120  
ATCC 21523 ○ AEKADSSNKGHVAAPFAGVTVTVTAEGDEVKAGDAVAIIIEAMKMEATITASVDGKIDRVV  
NRRL-B11474 ○ ○ (E)

1130 1140  
ATCC 21523 ○ VPAATKVEGGDLIVVVS  
NRRL-B11474 ○

FIG. 2B